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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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228

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of

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Complete if Known

Application Number	09/865,659
Filing Date	5/25/01
First Named Inventor	ANTHONY J. CALISE
Group Art Unit	2122 2121
Examiner Name	Baskor
Attorney Docket Number	3394-34267

U.S. PATENT DOCUMENTS

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~~AUG 30 2001~~

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FOREIGN PATENT DOCUMENTS

Examiner Signature	 Kelvin Becker	Date Considered	4/15/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Complete if Known

Application Number	09/865,659
Filing Date	5/25/01
First Named Inventor	ANTHONY J. CALISE
Group Art Unit	2122 2121
Examiner Name	Kolin Booker

Attorney Docket Number

3394-34267

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KB	B1.	ANTHONY J. CALISE, et al., Adaptive output feedback control of nonlinear systems using neural networks, Automatica, March 7, 2001, pp. 1201-1211, Automatica 37 (2001), School of Aerospace Engineering, Georgia Institute of Technology, Atlanta, GA, USA	
KB	B2.	YOUNG H. KIM, et al., A Dynamic Recurrent Neural-network-based Adaptive Observer for a Class of Nonlinear Systems, February 18, 1997, pp. 1539-1543, Automatica, Vol. 33, No. 8, The University of Texas at Arlington, Fort Worth, Texas & The University of New Mexico, Albuquerque, NM, USA	
KB	B3.	F.L. LEWIS, Nonlinear Network Structures for Feedback Control, Asian Journal of Control, December 1999, pp. 205-228, Vol. 1, No. 4	
KB	B4.	MOSHE IDAN, et al., A Hierarchical Approach to Adaptive Control for Improved Flight Safety, Copyright 2001, pp. 1-11, American Institute of Aeronautics and Astronautics, Reston, VA	AUG 30 2001 Technology Center 2100
KB	B5.	ANTHONY J. CALISE, et al., Development of a Reconfigurable Flight Control Law for the X-36 Tailless Fighter Aircraft, AIAA 2000-3940 Copyright 2000, pp. 1-9, American Institute of Aeronautics and Astronautics, Reston, VA	
KB	B6.	MANU SHARMA, et al., Neural Network Augmentation of Existing Linear Controllers, AIAA 2001-4163, Copyright 2001, pp. 1-9, American Institute of Aeronautics and Astronautics, Reston, VA	
KB	B7.	NAIRA HOVAKIMIAN, et al. Adaptive Output Feedback Control of a Class of Nonlinear Systems Using Neural Networks, April 23, 2001, pp. 1-21, School of Aerospace Engineering, Georgia Institute of Technology, Atlanta, GA	
KB	B8.	KEN-ICHI FUNAHASHI, On the Approximate Realization of Continuous Mappings by Neural Networks, September 14, 1988, pp. 183-192, Vol. 2, Neural Networks, USA	
KB	B9.	G. CYBENKO, Approximation by Superpositions of a Sigmoidal Function, Mathematics of Control, Signals, and Systems, February 17, 1989, pp. 303-315, Vol. 2, Springer-Verlag New York Inc., USA	
KB	B10.	ROBERT M. SANNER, et al., Gaussian Networks for Direct Adaptive Control, November, 1992, pp. 837-863, Vol. 3, No. 6, IEEE Transactions on Neural Networks	
KB	B11.	SRIDHAR SESHA GIRI, et al., Output Feedback Control of Nonlinear Systems Using RBF Neural Networks, January, 2000, pp. 69-79, Vol. II, No. 1, IEEE Transactions on Neural Network	

Examiner Signature

Date Considered

4/15/04

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Substitute for form 1449B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/865,659
				Filing Date	5/25/01
				First Named Inventor	ANTHONY J. CALISE
				Group Art Unit	2122 2121
				Examiner Name	Booker
Sheet	3	of	3	Attorney Docket Number	3394-34267



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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Complete if Known

Application Number	09/865,659
Filing Date	5/25/01
First Named Inventor	ANTHONY J. CALISE
Group Art Unit	2122 2121
Examiner Name	Barker
Attorney Docket Number	3394-34267

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Signature	 Kelvin Barker	Date Considered	4/15/04
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Substitute for form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/865,659
				Filing Date	05/25/2001
				First Named Inventor	CALISE, Anthony J.
				Group Art Unit	2122 2121
				Examiner Name	Booker
Sheet	1	of	2	Attorney Docket Number	3394-34267

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Examiner Signature	 Kelvin Booker	Date Considered	4/15/04
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Substitute for form 1449B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/865,659
				Filing Date	05/25/2001
				First Named Inventor	CALISE, Anthony J.
				Group Art Unit	2122 2121
				Examiner Name	Booker
				Attorney Docket Number	3394-34267
Sheet	2	of	2		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Signature	Valarie Becker	Date Considered	4/15/04
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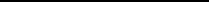
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/865,659
(use as many sheets as necessary)		Filing Date	5/25/2001
		First Named Inventor	CALISE, Anthony J.
		Group Art Unit	2122 2121
		Examiner Name	Barker
Sheet	2	of	2
		Attorney Docket Number	3304-34267

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

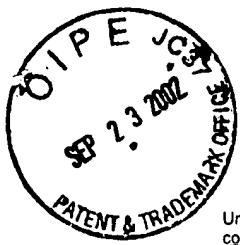
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>ZB</i>	B1	PCT Written Opinion, PCT/US01/17201 (PCT application related to present application) IPEA/EPO mailed July 19, 2002.	
<i>ZB</i>	B2	PCT International Search Report, PCT/US01/17201 (PCT application related to present application), ISA/EPO Authorized Officer: Mustafa Corapci, mailed July 18, 2002.	
<i>ZB</i>	B3	Tezcan & Basar, "Disturbance Attenuating Adaptive Controllers for Parametric Strict Feedback Nonlinear Systems with Output Measurements," Transactions of the ASME, Vol 121, pp 48-57 (March, 1999).	
<i>ZB</i>	B4	Zhang & Peng, "Stable Neural Controller Design for Unknown Nonlinear Systems Using Backstepping," Proceedings of the American Control Conf., pp 1067-1071 (June, 1999).	

Examiner Signature	 Kelvin Booker	Date Considered	4/15/04
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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	09/865,659
		Filing Date	5/25/2001
		First Named Inventor	CALISE, Anthony J.
		Art Unit	2122 2121
		Examiner Name	Barker
Sheet	1	of	XZ
		Attorney Docket Number	3304-34267

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Examiner Signature	 Kelvin Barker	Date Considered	4/15/04
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